

## ANTENNA SWITCH COMMON-USE UNIT

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- European:

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### Abstract of JP6077707

PURPOSE: To obtain small-sized, simple structure with high performance and connect an antenna selectively to a transmitter or receiver by combining a switch device, a receiving filter, and an impedance adjusting element. CONSTITUTION: When a switch 200 is OFF, a PIN diode D1 turns OFF, the impedance viewed from an antenna terminal 10 to a transmission terminal 9 becomes almost infinitely large, and the signal at the terminal 10 is supplied to the receiver 102 through a BPF 8. When the switch 200 is ON, on the other hand, the D1 turns ON and its impedance becomes nearly zero. An air-core coil 6 is connected to a connection point P1 and the admittance viewed from the terminal 10 to the BPF 8 is almost zero at a transmission frequency. A reception terminal 11 is therefore electrically disconnected from the terminal 10 at the transmission frequency and the D1 turns ON, thereby connecting the terminal 10 to a transmitter 101.

